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50X1-HUM

INTRODUCTION OF COAL STRIPPERS IN THE DONETS COAL FIELDS

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In 1946, the Voroshilovgrad Planning Bureau of the State Institute for Planning Coal Machines developed two variants of the coal stripper, the US-2 (welded) and the US-3 (cast), for the first time in the USSR. The stripper was then manufactured in the Voroshilovgrad Plant imeni Parkhomenko and in October 1947 was tested in Mine No 5-bis of the Voroshilovugol' Trust and Mine No 47 of Bryanskugol' Trust.

The stripper is made up of a number of mechanisms and is intented for cleaning operations in soft and medium-firm coal, in seams ranging from 0.75 to 1.6 meters thick, with a mine face up to 170 meters long.

It consists of the following parts: the stripper, which breaks up and loads coal (without preliminary cutting and blasting); a special, nonstationary scraper-conveyer which conveys coal along the area of mining operations and serves as a guide during the movement of the stripper along the mine face; two winches which start the stripper in motion; pneumatic jacks used to move the conveyer; an air pipe, attached to the frame of the conveyer, which supplies air to the pneumatic jacks; corner pulleys which direct the cable from the winches to the stripper; mechanized supports between the roof and floor of the seam which serve as braces for the pneumatic jacks; an electrical signalling system connecting the stripper operator with personnel operating other machinery; and a movable compressor which furnishes compressed air to the pneumatic jacks.

The following tables indicate some of the results achieved in the utilization of coal strippers in Donets coal mines:

- 1 -

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Table 1. Coal Mining at Mine Faces Equipped with Coal Strippers (in tons)

Mine, Face, (Thickness of Seam (m) x Length of Face (m))	6 Mo of 1947	1st $\frac{1}{2}$ Year 1948	Max for 1 Mo in 2d $\frac{1}{2}$ Yr	Mo Av for 1948	Mo Av for Work with Cutting Machine
No 5-bis, Voroshilovugol' Trust, 16th Western, (0.8 x 82)	13,563	11,903*	5,050	3,320	2,500
"Del'ta II," Voroshilovugol' Trust, 5th Eastern (0.9 x 100)	--	--	3,681	3,330	2,065
"Annenskaya," Biryanskugol' Trust, 4th Northern (1.0 x 64)	--	--	3,200	2,755	Newly cut face
"Novo-Mospino," Sovetskugol' Trust, 1st Eastern (1.15 x 60)	--	--	2,536	2,536	3,292
No 1 imeni Chelyuskin-tsy, Stalinugol' Trust, 6th Western, ZPU (1.0 x 115)	--	--	4,066	3,156	No data
No 4/6 "Karbonit," Pervomayskugol' Trust, Western, Level 360 m (1.0 x 80)	--	--	2,013	1,633	Newly cut face

\* No stripper was in operation during January and May.

Table 2. Rate of Mine Face Advance at Faces Equipped with Coal Strippers (m)

Mine, Face (Thickness of Seam (m) x Length of Face (m))	6 Mo 1947	1st $\frac{1}{2}$ Yr 1948	Second Half 1948					
			Jul	Aug	Sep	Oct	Nov	Dec
No 5-bis, 16th Western (0.8 x 82)	134	103.5*	30	49	44	48	face exhausted	
"Del'ta II" (0.9 x 100)	--	--	--	--	31	26	31	28.5
"Annenskaya," 4th Northern (1.0 x 64)	--	--	--	--	25	27	25.6	32.2

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Table 2 (Contd)

Mine, Face (Thickness of Seam (m) x Length of Face (m))	6 Mo <u>1947</u>	1st $\frac{1}{2}$ Yr <u>1948</u>	Second Half 1948					
			<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>
"Novo-Mospino," 1st Eastern (1.15 x 60)	--	--	--	--	--	--	--	28
No 1 imeni Chelyuskin- tsy, 6th Western (1.0 x 115)	--	33.5	23	15.5	20	21	20	13.8
No 4/6 "Kar- bonit" West- ern Level 360 m (1.0 x 80)	--	--	--	--	8	18	18	21

\* No stripper was in operation during January and May.

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Table 3  
Productivity of Workers at Mine Faces Equipped with Coal Strippers

Mine, Face, (Thickness of Seam (m) x Length of Face (m))	Inc in Productivity per Worker (%)	Dec in Workers per Shift at Face with Stripper per 1,000 Tons Mined	Inc in Productivity of Mine (#)	Max Dec in Workers per Shift for Mine per 1,000 Tons Mined
No 5-bis, 16th Western (0.8 x 82)	A ] 45 B ]	173	100	277
20th Western (0.8 x 220)	A ] B ]			
"Del'ta II" 5th Eastern (0.9 x 100)	A ] 22 B ]	85	46	160
7th Eastern (0.85 x 97)	A ] B ]			
"Annenskaya" 4th Northern L-2 (1.6 x 64)	A ] 50 B ]	175	70	222
4th Southern, L-2 (1.0 x 53)	A ] B ]			
"Novo-Mospino" 1st Eastern (1.15 x 60)	A ] 50 B ]	210	50	210
The same (1.15 x 60)				

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Table 3 (Contd.)

Mine, Face, (Thickness of Seam (m) x Length of Face (m))	Inc in Productivity per Worker (%)	Dec in Workers per Shift at Face with Stripper per 1,000 Tons Mined	Max Dec in Workers per Shift for Mine per 1,000 Tons Mined
No 1 imeni Chelynskintsy 6th Western, ZU (1.0 x 115)	5	20	72
5th Western, ZU (1.0 x 135)			215
No 4/6 "Karbonit" Western, Level 360 m (1.0 x 80)	A 9 B --	45 --	46 185
Eastern, Level 360 m (1.0 x 75)	B --	118	212

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Table 4  
Timing Data for Coal Plan Operations

Operations in Mining Shift	Mine No 5-bis			"Del'ta III" Mine			Mine No 4/6 "Karbonit"		
	Time (hr-min)	Percent	Time (hr-min)	Percent	Time (hr-min)	Percent	Time (hr-min)	Percent	
Basic (stripping)	1-17	14	1-03	13	1-33	18			
Auxiliary (movement of conveyor, cleaning and "sboyka zemnika")	6-19	69	5-03	64	3-18	35			
Preliminary and finishing up (admission and dismissal of shift, allocation of workers)	0-10	2	0-15	3	0-14	3			
Additional (bracing face, removal of failed stones)	--	--	0-08	2	1-23	20			
Losses of time (lack of empty cars, electric power, etc)	1-22	15	1-27	18	1-53	24			
Total	9-08	100	7-56	100	8-21	100			

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- 6 -

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